$B^+ \to D_s^+ a_1(1260)^0$	$< 2.3 \times 10^{-3}$	CL=90%	2079
$B^+ \to D_s^{*+} a_1(1260)^0$	$< 1.7 \times 10^{-3}$	CL=90%	2015
$B^+ \to D_s^+ \phi$	$< 3.3 \times 10^{-4}$	CL=90%	2140
$B^+ \to D_s^{*+} \phi$	$< 4 \times 10^{-4}$	CL=90%	2080
$B^+ \to D_s^+ \overline{K}^0$	$< 1.1 \times 10^{-3}$	CL=90%	2241
$B^+ \to D_s^{*+} \overline{K}^0$	$< 1.2 \times 10^{-3}$	CL=90%	2185
$B^+ \to D_s^+ \overline{K}^*(892)^0$	$< 5 \times 10^{-4}$	CL=90%	2171
$B^+ \to D_s^{*+} \overline{K}^*(892)^0$	$< 5 \times 10^{-4}$	CL=90%	2111
$B^+ \to D_s^- \pi^+ K^+$	$< 9 \times 10^{-4}$	CL=90%	2222
$B^+ \to D_s^{*-} \pi^+ K^+$	$< 1.2 \times 10^{-3}$	CL=90%	2165
$B^+ \to D_s^- \pi^+ K^*(892)^+$	$< 7 \times 10^{-3}$	CL=90%	2137
$B^+ \to D_s^{*-} \pi^+ K^*(892)^+$	$< 9 \times 10^{-3}$	CL=90%	2076

Charmonium modes

$B^+ \to J/\psi(1S) K^+$	$(1.02 \pm 0.14) \times 10^{-3}$		1683
$B^+ \to J/\psi(1S) K^+ \pi^+ \pi^-$	$(1.4 \pm 0.6) \times 10^{-3}$		1612
$B^+ \to J/\psi(1S) K^*(892)^+$	$(1.7 \pm 0.5) \times 10^{-3}$		1571
$B^+ \to \psi(2S) K^+$	$(6.9 \pm 3.1) \times 10^{-4}$	S=1.3	1284
$B^+ \to \psi(2S) K^*(892)^+$	$< 3.0 \times 10^{-3}$	CL=90%	1115
$B^+ \to \psi(2S) K^*(892)^+ \pi^+ \pi^-$	$(1.9 \pm 1.2) \times 10^{-3}$		909
$B^+ \to \chi_{c1}(1P) K^+$	$(1.0 \pm 0.4) \times 10^{-3}$		1411
$B^+ \to \chi_{c1}(1P) K^*(892)^+$	$< 2.1 \times 10^{-3}$	CL=90%	1265

K or K^* modes

$B^+ \to K^0 \pi^+$	$< 1.0 \times 10^{-4}$	CL=90%	2614
$B^+ \to K^*(892)^0 \pi^+$	$< 1.5 \times 10^{-4}$	CL=90%	2561
$B^+ \to K^+ \pi^- \pi^+$ (no charm)	$< 1.9 \times 10^{-4}$	CL=90%	2609
$B^+ \to K_1(1400)^0 \pi^+$	$< 2.6 \times 10^{-3}$	CL=90%	2451
$B^+ \to K_2^*(1430)^0 \pi^+$	$< 6.8 \times 10^{-4}$	CL=90%	2443
$B^+ \to K^+ \rho^0$	$< 8 \times 10^{-5}$	CL=90%	2559
$B^+ \to K^*(892)^+ \pi^+ \pi^-$	$< 1.1 \times 10^{-3}$	CL=90%	2556
$B^+ \to K^*(892)^+ \rho^0$	$< 9.0 \times 10^{-4}$	CL=90%	2505
$B^+ \to K_1(1400)^+ \rho^0$	$< 7.8 \times 10^{-4}$	CL=90%	2388
$B^+ \to K_2^*(1430)^+ \rho^0$	$< 1.5 \times 10^{-3}$	CL=90%	2382
$B^+ \to K^+ K^- K^+$	$< 3.5 \times 10^{-4}$	CL=90%	2522
$B^+ \to K^+ \phi$	$< 9 \times 10^{-5}$	CL=90%	2516
$B^+ \to K^*(892)^+ K^+ K^-$	$< 1.6 \times 10^{-3}$	CL=90%	2466
$B^+ \to K^*(892)^+ \phi$	$< 1.3 \times 10^{-3}$	CL=90%	2460
$B^+ \to K_1(1400)^+ \phi$	$< 1.1 \times 10^{-3}$	CL=90%	2339
$B^+ \to K_2^*(1430)^+ \phi$	$< 3.4 \times 10^{-3}$	CL=90%	2332
$B^+ \to K^+ f_0(980)$	$< 8 \times 10^{-5}$	CL=90%	2524
$B^+ \to K^*(892)^+ \gamma$	$(5.7 \pm 3.3) \times 10^{-5}$		2564
$B^+ \to K_1(1270)^+ \gamma$	$< 7.3 \times 10^{-3}$	CL=90%	2486
$B^+ \to K_1(1400)^+ \gamma$	$< 2.2 \times 10^{-3}$	CL=90%	2453
$B^+ \to K_2^*(1430)^+ \gamma$	$< 1.4 \times 10^{-3}$	CL=90%	2447
$B^+ \to K^*(1680)^+ \gamma$	$< 1.9 \times 10^{-3}$	CL=90%	2361
$B^+ \to K_3^*(1780)^+ \gamma$	$< 5.5 \times 10^{-3}$	CL=90%	2343
$B^+ \to K_4^*(2045)^+ \gamma$	$< 9.9 \times 10^{-3}$	CL=90%	2243

Light unflavored meson modes

$B^+ \to \pi^+ \pi^0$	$< 2.4 \times 10^{-4}$	CL=90%	2636
$B^+ \to \pi^+ \pi^+ \pi^-$	$< 1.9 \times 10^{-4}$	CL=90%	2630
$B^+ \to \rho^0 \pi^+$	$< 1.5 \times 10^{-4}$	CL=90%	2581
$B^+ \to \pi^+ f_0(980)$	$< 1.4 \times 10^{-4}$	CL=90%	2546
$B^+ \to \pi^+ f_2(1270)$	$< 2.4 \times 10^{-4}$	CL=90%	2483
$B^+ \to \pi^+ \pi^0 \pi^0$	$< 8.9 \times 10^{-4}$	CL=90%	2631
$B^+ \to \rho^+ \pi^0$	$< 5.5 \times 10^{-4}$	CL=90%	2581
$B^+ \to \pi^+ \pi^- \pi^+ \pi^0$	$< 4.0 \times 10^{-3}$	CL=90%	2621
$B^+ \to \rho^+ \rho^0$	$< 1.0 \times 10^{-3}$	CL=90%	2525
$B^+ \to a_1(1260)^+ \pi^0$	$< 1.7 \times 10^{-3}$	CL=90%	2494
$B^+ \to a_1(1260)^0 \pi^+$	$< 9.0 \times 10^{-4}$	CL=90%	2494
$B^+ \to \omega \pi^+$	$< 4.0 \times 10^{-4}$	CL=90%	2580
$B^+ \to \eta \pi^+$	$< 7.0 \times 10^{-4}$	CL=90%	2609
$B^+ \to \pi^+ \pi^+ \pi^+ \pi^- \pi^-$	$< 8.6 \times 10^{-4}$	CL=90%	2608
$B^+ \to \rho^0 a_1(1260)^+$	$< 6.2 \times 10^{-4}$	CL=90%	2433
$B^+ \to \rho^0 a_2(1320)^+$	$< 7.2 \times 10^{-4}$	CL=90%	2411
$B^+ \to \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^0$	$< 6.3 \times 10^{-3}$	CL=90%	2592
$B^+ \to a_1(1260)^+ a_1(1260)^0$	< 1.3 %	CL=90%	2335

Baryon modes

$B^+ \to p \overline{p} \pi^+$	$< 1.6 \times 10^{-4}$	CL=90%	2438
$B^+ \to p \overline{p} \pi^+ \pi^+ \pi^-$	$< 5.2 \times 10^{-4}$	CL=90%	2369
$B^+ \to p \overline{\Lambda}$	$< 6 \times 10^{-5}$	CL=90%	2430
$B^+ \to p \overline{\Lambda} \pi^+ \pi^-$	$< 2.0 \times 10^{-4}$	CL=90%	2367
$B^+ \to \overline{\Delta}^0 p$	$< 3.8 \times 10^{-4}$	CL=90%	2402
$B^+ \to \Delta^{++} \overline{p}$	$< 1.5 \times 10^{-4}$	CL=90%	2402

Lepton Family number (LF) or Lepton number (L) violating modes, or $\Delta B = 1$ weak neutral current ($B1$) modes

$B^+ \to \pi^+ e^+ e^-$	$B1$	$< 3.9 \times 10^{-3}$	CL=90%	2638
$B^+ \to \pi^+ \mu^+ \mu^-$	$B1$	$< 9.1 \times 10^{-3}$	CL=90%	2633
$B^+ \to K^+ e^+ e^-$	$B1$	$< 6 \times 10^{-5}$	CL=90%	2616
$B^+ \to K^+ \mu^+ \mu^-$	$B1$	$< 1.7 \times 10^{-4}$	CL=90%	2612
$B^+ \to K^*(892)^+ e^+ e^-$	$B1$	$< 6.9 \times 10^{-4}$	CL=90%	2564
$B^+ \to K^*(892)^+ \mu^+ \mu^-$	$B1$	$< 1.2 \times 10^{-3}$	CL=90%	2560
$B^+ \to \pi^+ e^+ \mu^-$	LF	$< 6.4 \times 10^{-3}$	CL=90%	2636
$B^+ \to \pi^+ e^- \mu^+$	LF	$< 6.4 \times 10^{-3}$	CL=90%	2636
$B^+ \to K^+ e^+ \mu^-$	LF	$< 6.4 \times 10^{-3}$	CL=90%	2615
$B^+ \to K^+ e^- \mu^+$	LF	$< 6.4 \times 10^{-3}$	CL=90%	2615
$B^+ \to \pi^- e^+ e^+$	L	$< 3.9 \times 10^{-3}$	CL=90%	2638
$B^+ \to \pi^- \mu^+ \mu^+$	L	$< 9.1 \times 10^{-3}$	CL=90%	2633
$B^+ \to \pi^- e^+ \mu^+$	L	$< 6.4 \times 10^{-3}$	CL=90%	2636
$B^+ \to K^- e^+ e^+$	L	$< 3.9 \times 10^{-3}$	CL=90%	2616
$B^+ \to K^- \mu^+ \mu^+$	L	$< 9.1 \times 10^{-3}$	CL=90%	2612
$B^+ \to K^- e^+ \mu^+$	L	$< 6.4 \times 10^{-3}$	CL=90%	2615

B DECAY MODES

$\overline{B}$ modes are charge conjugates of the modes below.

For the following modes, the charge of B was not determined. The measurements are for an admixture of B mesons at the $\Upsilon(4S)$ unless otherwise indicated by a footnote and a "$\overline{b}$" instead of "B" in the initial state.

Semileptonic and leptonic modes

$B \to e^+ \nu_e$ anything	[ss]	(10.4 ± 0.4) %	S=1.3	–
$B \to \overline{D}^*(2010) e^+ \nu_e$		(7.0 ± 2.3) %		–
$B \to \overline{p} e^+ \nu_e$ anything		$< 1.6 \times 10^{-3}$	CL=90%	–
$B \to \mu^+ \nu_\mu$ anything	[ss]	(10.3 ± 0.5) %		–
$B \to \ell^+ \nu_\ell$ anything	[ii,ss]	(10.43 ± 0.24) %		–
$B \to D^- \ell^+ \nu_\ell$ anything	[ii]	(2.7 ± 0.8) %		–
$B \to \overline{D}^0 \ell^+ \nu_\ell$ anything	[ii]	(7.0 ± 1.4) %		–
$B \to D^{**} \ell^+ \nu_\ell$	[ii,tt]	(2.7 ± 0.7) %		–
$B \to D_s^- \ell^+ \nu_\ell$ anything	[ii]	$< 9 \times 10^{-3}$	CL=90%	–
$B \to D_s^- \ell^+ \nu_\ell K^+$ anything	[ii]	$< 6 \times 10^{-3}$	CL=90%	–
$B \to D_s^- \ell^+ \nu_\ell K^0$ anything	[ii]	$< 9 \times 10^{-3}$	CL=90%	–
$B \to K^+ \ell^+ \nu_\ell$ anything	[ii]	(5.6 ± 1.0) %		–
$B \to K^- \ell^+ \nu_\ell$ anything	[ii]	(1.0 ± 0.6) %		–
$B \to K^0/\overline{K}^0 \ell^+ \nu_\ell$ anything	[ii]	(4.1 ± 0.8) %		–
$\overline{b} \to \tau^+ \nu_\tau$ anything	[uu]	(4.1 ± 1.0) %		–

D, D^*, or D_s modes

$B \to D^-$ anything		(26 ± 4) %		–
$B \to \overline{D}^0$ anything		(54 ± 6) %		–
$B \to D^*(2010)^-$ anything		(23.2 ± 3.3) %	S=1.1	–
$B \to D_s^\pm$ anything	[q]	(8.9 ± 1.1) %		–
$B \to D_s D$, $D_s^* D$, $D_s D^*$, or $D_s^* D^*$	[q]	(5.0 ± 0.9) %		–
$B \to D^*(2010) \gamma$		$< 1.1 \times 10^{-3}$	CL=90%	–
$B \to D_s^+ \pi^-$, $D_s^{*+} \pi^-$, $D_s^+ \rho^-$, $D_s^{*+} \rho^-$, $D_s^+ \pi^0$, $D_s^{*+} \pi^0$, $D_s^+ \eta$, $D_s^{*+} \eta$, $D_s^+ \rho^0$, $D_s^{*+} \rho^0$, $D_s^+ \omega$, $D_s^{*+} \omega$		$< 5 \times 10^{-4}$	CL=90%	–

Charmonium modes

$B \to J/\psi(1S)$ anything		(1.30 ± 0.17) %		–
$B \to \psi(2S)$ anything		$(4.6 \pm 2.0) \times 10^{-3}$		–
$B \to \chi_{c1}(1P)$ anything		(1.1 ± 0.4) %		–

K or K^* modes

$B \to K^\pm$ anything	[q]	(85 ± 11) %		–
$B \to K^0/\overline{K}^0$ anything		(63 ± 8) %		–
$b \to s \gamma$	[vv]	$< 1.2 \times 10^{-3}$	CL=90%	–
$B \to K^*(892) \gamma$		$< 2.4 \times 10^{-4}$	CL=90%	–
$B \to K_1(1400) \gamma$		$< 4.1 \times 10^{-4}$	CL=90%	–
$B \to K_2^*(1430) \gamma$		$< 8.3 \times 10^{-4}$	CL=90%	–
$B \to K_2(1770) \gamma$		$< 1.2 \times 10^{-3}$	CL=90%	–
$B \to K_3^*(1780) \gamma$		$< 3.0 \times 10^{-3}$	CL=90%	–
$B \to K_4^*(2045) \gamma$		$< 1.0 \times 10^{-3}$	CL=90%	–

Light unflavored meson modes

$B \to \phi$ anything		(2.3 ± 0.8) %		–